

Organizing committee: Sigal Gottlieb and Gaurav Khanna (UMD), Hans Johnston (UMA), Jeff Dusenberry (UMB), Kavitha Chandra and Vinod Vokkarane (UML), Konstantin Zeldovich (UMW), Doug Banks and Ralph Zottola (UMass President's Office).
w/ifi login to CONFERENCE1 or CONFERENCE2 (no password needed).



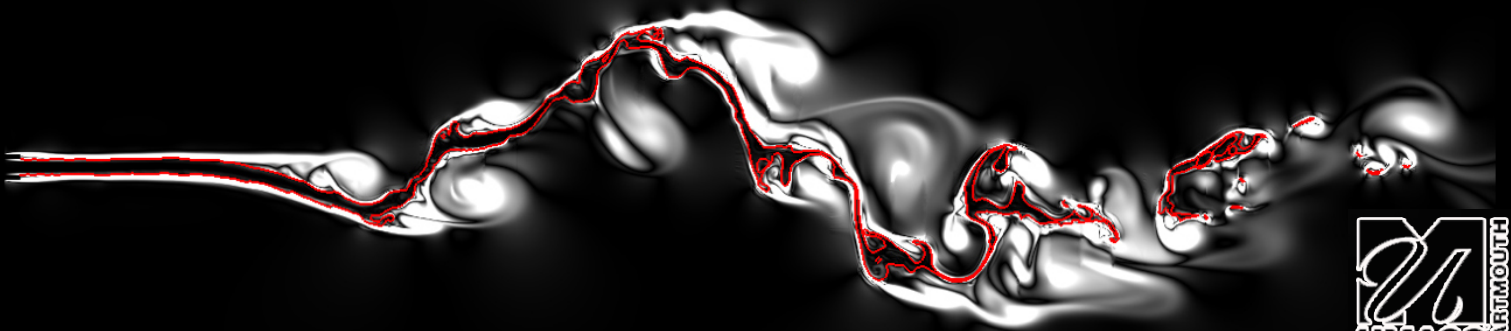
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UMass HPC day

November 14, 2014

hosted by

Center for Scientific Computing
& Visualization Research



Program

- 9:00-9:30am Breakfast and registration
- 9:30-9:45am Opening Remarks
- 9:45-10:30am **A Framework for Low-Communication 1-D FFT**
by P. Tang (Intel)
- 10:45-11:15pm Coffee break and **poster session**
- 11:20-11:40am **HPC Simulations of Exploding Stars: Computational
Astrophysics in a Post-Millennial Era** by *R. Fisher (UMD)*
- 11:40-12:00pm **Statistical methods for social networks** by *K. Gile (UMA)*
- 12:00-12:20pm **What HPC can do for my research** by A. Ritacco (HPC at UMW)
- 12:30-1:30pm Lunch Break
**Program for students: R. Panoff (Shodor) on the
Blue Waters Internship Program**
- 1:30-1:50pm **Crowd Computing: Scientific discoveries by protein folding
game players** by *Firas Khatib (UMD)*
- 1:50-2:10pm **Hardware Acceleration of Private Information Retrieval
Protocols Using GPUs** by G. Ghinita (UMB)
- 2:10-2:30pm **Simulation of Non-Equilibrium Flows: Plasma Turbulence and
Radiation Transport** by *J. P. Trelles (UML)*
- 2:30-2:50pm **The FEAST eigensolver with application to electronic structure
calculations** by *E. Polizzi (UMA)*
- 2:50-3:20pm Coffee break and time for collaborations and posters
- 3:20-4:00pm **Solving High Performance Computing Problems Requires
Systems that Optimize the Workflow** by K. Jordan (IBM)
- 4:00-4:20pm **Model reduction that you can rely on** by Y. Chen (UMD)
- 4:20-4:40pm **HPC simulations of multiphase flows with applications in energy
systems** by *M. Raessi (UMD)*
- 4:40-5:00pm **Scalable I/O Software Stack for Big Data** by *S. W. Son (UML)*
- 5:00 - 5:20pm Closing remarks and poster awards